

B ) wherein said pixel electrode comprises a light-transmitting material in said second display region, and

and wherein each of said sensor portions includes a photo-electric conversion device, and can read information by utilizing the rays of light transmitting through said light-transmitting material when an external image is read.

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4. (Amended) A display device comprising:

a plurality of pixel portions each having an active device and arranged in matrix and each having a pixel electrode over a first substrate; and

a plurality of sensor portions disposed in matrix over a second substrate opposed to said first substrate,

wherein a plane parallel to a direction of said matrix is divided into at least a first display region and a second display region in said pixel electrode,

B ) wherein said pixel electrode comprises a reflecting material in said first display region,

wherein said pixel electrode comprises a light-transmitting material in said second display region, and

wherein each of said sensor portions has a photo-electric conversion device, and can read information by utilizing the rays of light transmitting through said light-transmitting material when an external image is read.

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8. (Amended) A display device comprising:

a plurality of pixel portions each having an active device and arranged in matrix and each having a pixel electrode over a substrate; and

B ) a plurality of sensor portions arranged in matrix over said substrate, wherein each of said sensor portions has a photo-electric conversion device, and at least a part of said photo-electric conversion device is extended in such a manner as to overlap with said active device,

wherein a plane parallel to a direction of said matrix is divided into at least a first display region and a second display region in said pixel electrode,

wherein said pixel electrode comprises a reflecting material in said first display region, and

wherein said pixel electrode comprises a light-transmitting material in said second display region.

12. (Amended) A semiconductor device comprising:

a pixel portion having an active device and a pixel electrode over a substrate; and

a sensor portion provided over said substrate and comprising a photo-electric conversion device,

wherein said active device and said pixel electrode and said photo-electric conversion device are provided in one of pixels arranged in matrix,

wherein a plane parallel to a direction of said matrix is divided into at least a first display region and a second display region in said pixel electrode,

wherein said pixel electrode comprises a reflecting material in said first display region,

wherein said pixel electrode comprises a light-transmitting material in said second display region, and

wherein said sensor portion can read information by utilizing the rays of light transmitting through said light-transmitting material when an external image is read.

15. (Amended) A semiconductor device comprising:

a first substrate and a second substrate opposed to said first substrate;

a pixel portion having an active device and a pixel electrode over said first substrate; and

a sensor portion provided over said second substrate and comprising a photo-electric conversion device,

wherein said active device and said pixel electrode and said photo-electric conversion device are provided in one of pixels arranged in matrix,

wherein a plane parallel to a direction of said matrix is divided into at least a first display region and a second display region in said pixel electrode,

wherein said pixel electrode comprises a reflecting material in said first display region,

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Saw wherein said pixel electrode comprises a light-transmitting material in said second display region, and

wherein said sensor portion can read information by utilizing the rays of light transmitting through said light-transmitting material when an external image is read.

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19. (Amended) A semiconductor device comprising:

a pixel portion having an active device and a pixel electrode over a substrate;

and

a sensor portion provided over said substrate and having a photo-electric conversion device,

wherein said active device and said pixel electrode and said photo-electric conversion device are provided in one of pixels arranged in matrix, and

wherein at least a part of said photo-electric conversion device is extended in such a manner as to overlap with said active device,

B6 wherein a plane parallel to a direction of said matrix is divided into at least a first display region and a second display region in said pixel electrode,

wherein said pixel electrode comprises a reflecting material in said first display region, and

wherein said pixel electrode comprises a light-transmitting material in said second display region.

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23. (Amended) A display device comprising:

a plurality of pixel portions each having an active device and arranged in matrix and each having a pixel electrode over a substrate; and

a plurality of sensor portions arranged in matrix over said substrate,

B7 wherein a plane parallel to a direction of said matrix is divided into at least a first display region and a second display region in said pixel electrode,

wherein said pixel electrode comprises a reflecting material in said first display region,

wherein said pixel electrode comprises a light-transmitting material in said second display region, and

wherein each of said sensor portions includes a photo-electric conversion device, and can read information by utilizing the rays of light transmitting through said light-transmitting material when an external image is read.

24. (Amended) A display device comprising:

a plurality of pixel portions each having an active device and arranged in matrix and each having a pixel electrode over a first substrate; and

a plurality of sensor portions disposed in matrix over a second substrate opposed to said first substrate,

wherein a plane parallel to a direction of said matrix is divided into at least a first display region and a second display region in said pixel electrode,

wherein said pixel electrode comprises a reflecting material in said first display region,

wherein said pixel electrode comprises a light-transmitting material in said second display region, and

wherein each of said sensor portions has a photo-electric conversion device, and can read information by utilizing the rays of light transmitting through said light-transmitting material when an external image is read.

25. (Amended) A display device comprising:

a plurality of pixel portions each having an active device and arranged in matrix and each having a pixel electrode over a substrate; and

a plurality of sensor portions arranged in matrix over said substrate, wherein each of said sensor portions has a photo-electric conversion device, and at least a part of said photo-electric conversion device is extended in such a manner as to overlap with said active device,

wherein a plane parallel to a direction of said matrix is divided into at least a first display region and a second display region in said pixel electrode,

wherein said pixel electrode comprises a reflecting material in said first display region, and

wherein said pixel electrode comprises a light-transmitting material in said second display region.

26. (Amended) A semiconductor device comprising:

a pixel portion having an active device and a pixel electrode over a substrate;  
and

a sensor portion provided over said substrate and comprising a photo-electric conversion device,

wherein said active device and said pixel electrode and said photo-electric conversion device are provided in one of pixels arranged in matrix, and

wherein a plane parallel to a direction of said matrix is divided into at least a first display region and a second display region in said pixel electrode,

wherein said pixel electrode comprises a reflecting material in said first display region,

wherein said pixel electrode comprises a light-transmitting material in said second display region, and

wherein said sensor portion can read information by utilizing the rays of light transmitting through said light-transmitting material when an external image is read.

27. (Amended) A semiconductor device comprising:

a first substrate and a second substrate opposed to said first substrate;

a pixel portion having an active device and a pixel electrode over said first substrate; and

a sensor portion provided over said second substrate and comprising a photo-electric conversion device,

wherein said active device and said pixel electrode and said photo-electric conversion device are provided in one of pixels arranged in matrix, and

wherein a plane parallel to a direction of said matrix is divided into at least a first display region and a second display region in said pixel electrode,

wherein said pixel electrode comprises a reflecting material in said first display region,

wherein said pixel electrode comprises a light-transmitting material in said second display region, and

wherein said sensor portion can read information by utilizing the rays of light transmitting through said light-transmitting material when an external image is read.

28. (Amended) A semiconductor device comprising:

a pixel portion having an active device and a pixel electrode over a substrate;  
and

a sensor portion provided over said substrate and having a photo-electric conversion device,

wherein said active device and said pixel electrode and said photo-electric conversion device are provided in one of pixels arranged in matrix, and

wherein at least a part of said photo-electric conversion device is extended in such a manner as to overlap with said active device,

wherein a plane parallel to a direction of said matrix is divided into at least a first display region and a second display region in said pixel electrode,

wherein said pixel electrode comprises a reflecting material in said first display region, and

wherein said pixel electrode comprises a light-transmitting material in said second display region.

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